

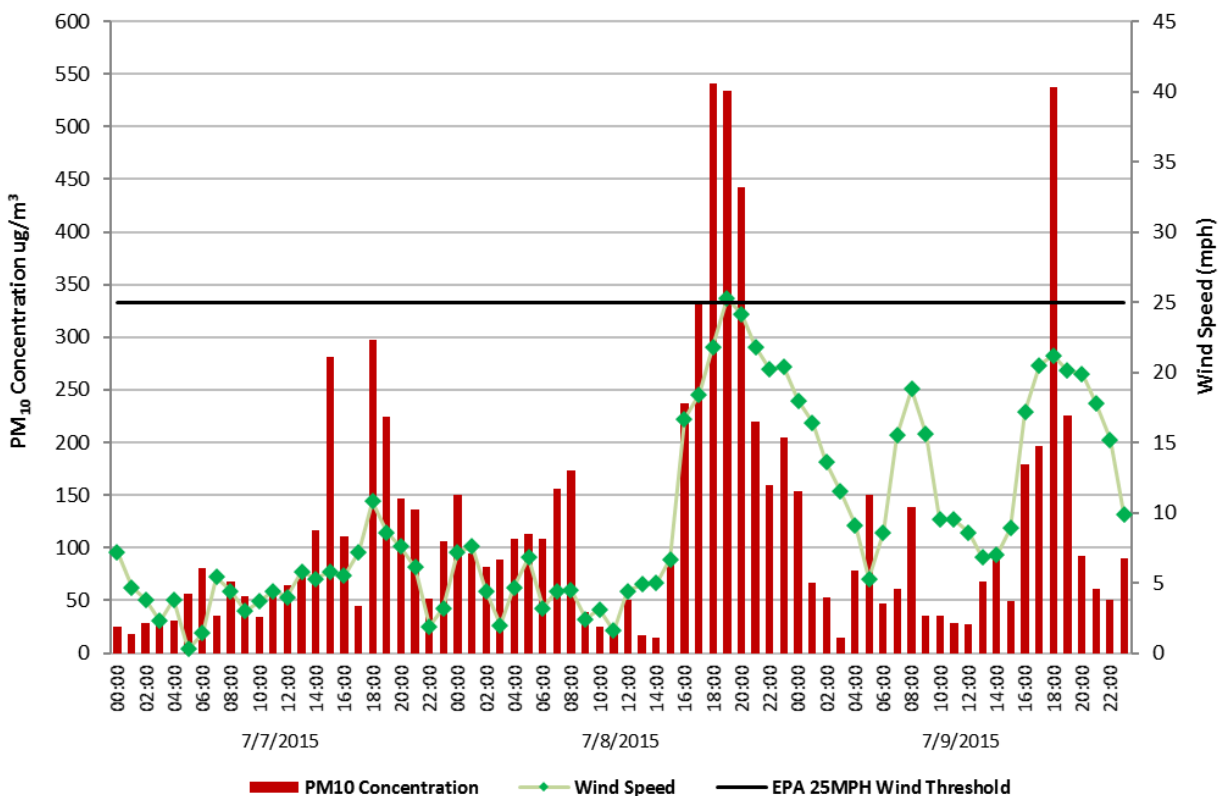
## Appendix C

### Correlated PM<sub>10</sub> Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds<sup>1</sup> and PM<sub>10</sub> concentrations at select monitoring sites within the Salton Sea Air Basin on July 8, 2015. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

#### IMPERIAL COUNTY SELECT SITES (FIGURES C-1 to C-4)

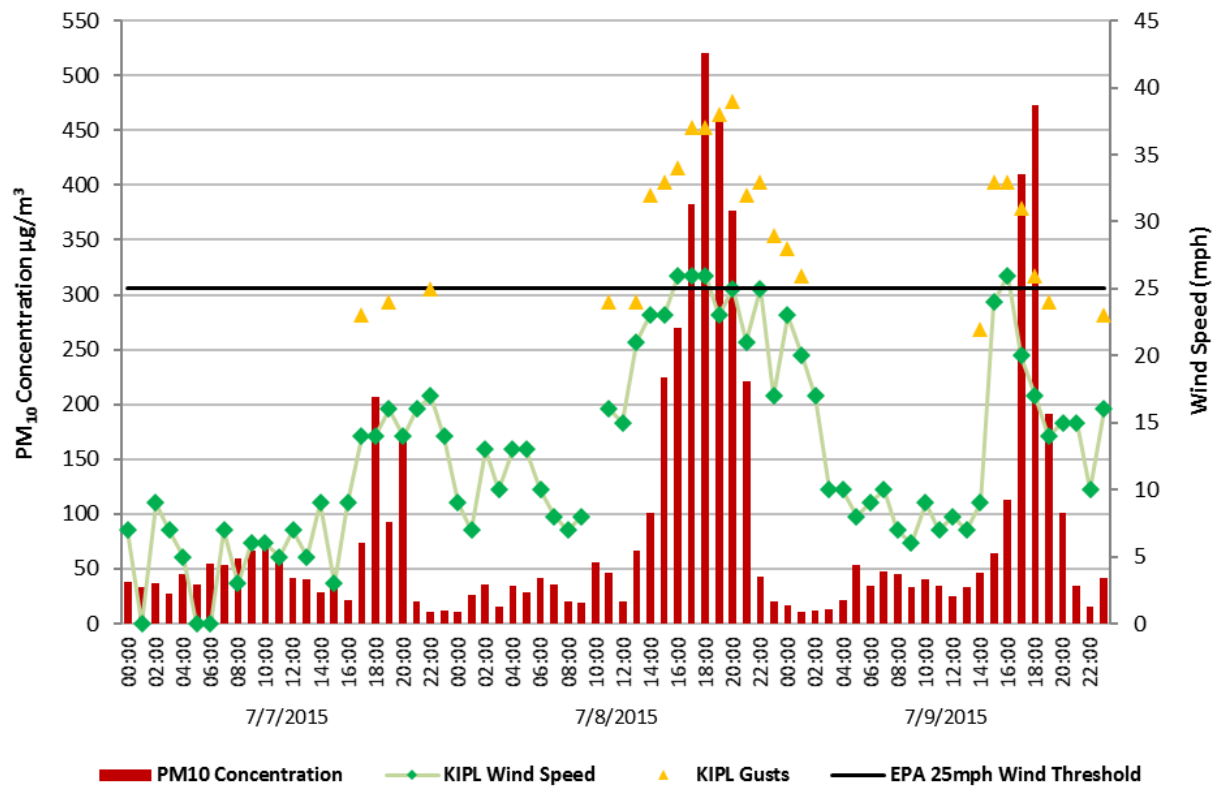
**FIGURE C-1**  
**NILAND PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



**Figs C-1:** Niland measured increased levels of PM<sub>10</sub> as winds speeds increased during the afternoon on July 8, 2015. Concentrations declined shortly after winds at the station reached their peak, indicating dust was being swept downstream. Wind data from the EPA's AQS data bank

<sup>1</sup> National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); <https://w1.weather.gov/glossary/index.php?letter=w>

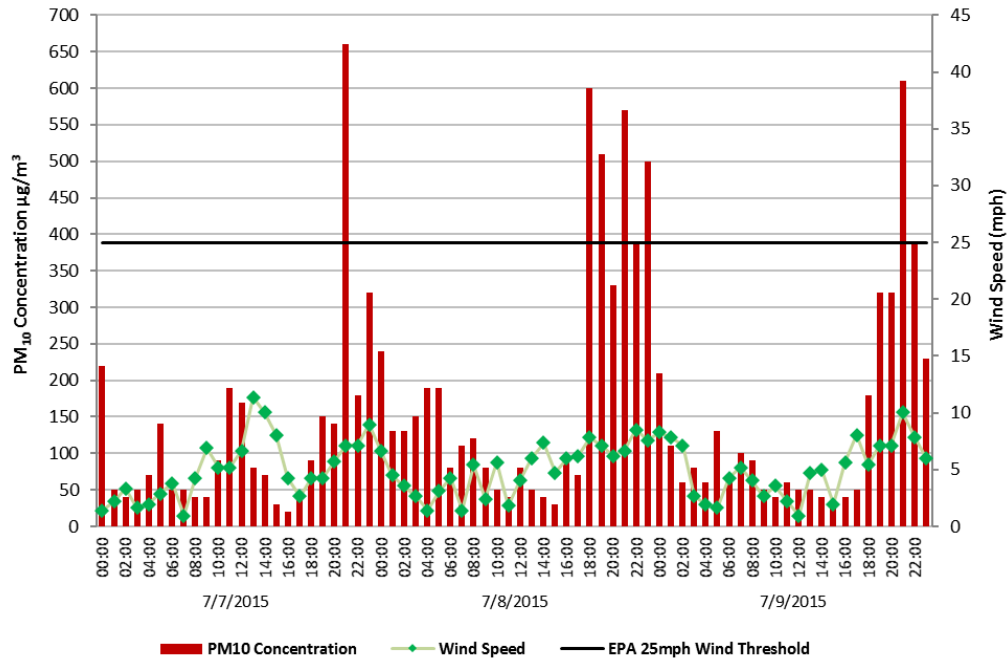
**FIGURE C-2**  
**BRAWLEY PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



**Fig C-2:** Brawley measured increased levels of PM<sub>10</sub> as winds speeds increased during the afternoon on July 8, 2015. However, it did not record an exceedance. Wind from Imperial County Airport, QCLCD data

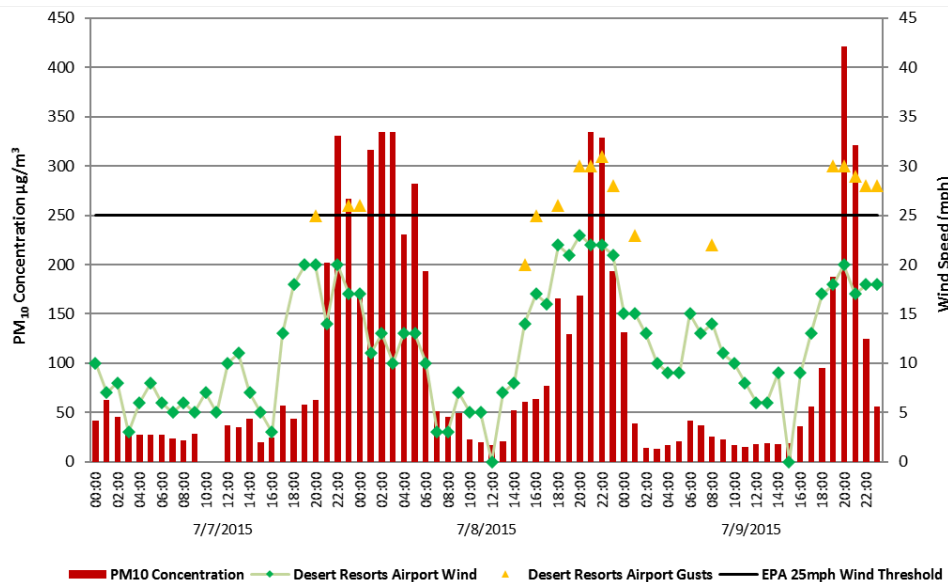
## EASTERN RIVERSIDE COUNTY MONITORING SITES

**FIGURE C-3**  
**TORRES-MARTINEZ DESERT CAHUILLA INDIANS**  
**PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



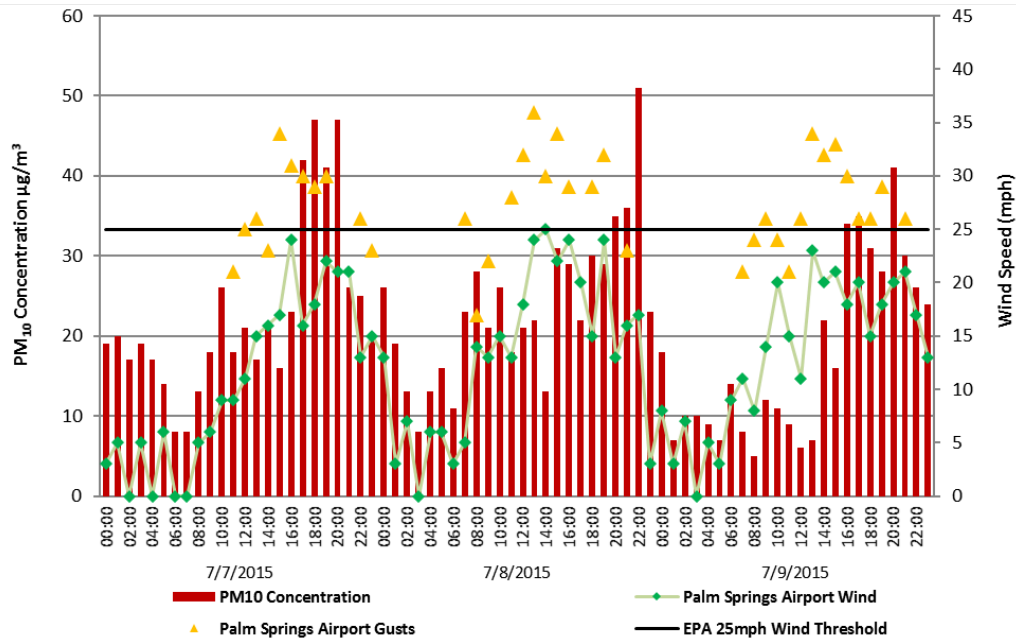
**Fig C-3:** Wind and air quality data from the EPA's AQS data bank

**FIGURE C-4**  
**INDIO (JACKSON ST) PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



**Fig C-4:** Wind data is for Jacqueline Cochran-Desert Resorts Airport (KTRM)

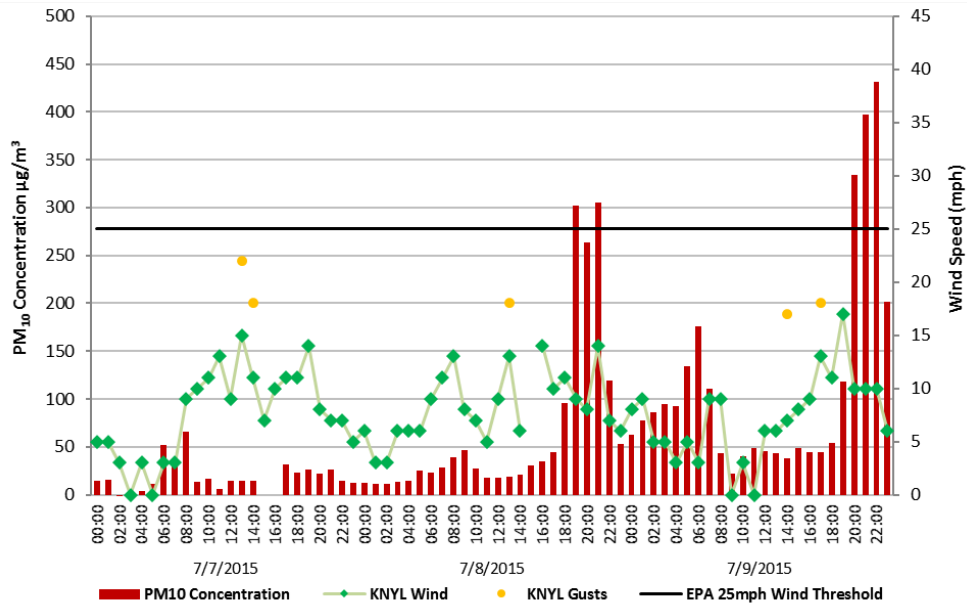
**FIGURE C-5**  
**PALM SPRINGS FIRE STATION PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



**Fig C-5:** Palm Springs Fire Station wind data from Palm Springs Airport

### SOUTHWESTERN ARIZONA MONITORING SITE

**FIGURE C-6**  
**YUMA (ARIZONA) SUPERSITE PM<sub>10</sub> CONCENTRATION AND WIND SPEED CORRELATION**



**Fig C-6:** Yuma Supersite in Yuma, Arizona, saw corresponding increases in particulate matter late in the day. Wind data from the Yuma MCAS QCLCD data